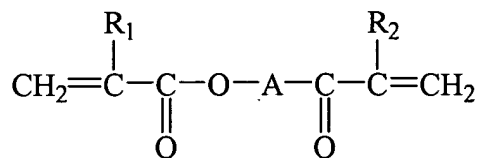


**APPENDIX A**  
**Copy of Amended Claims With Editing Indicia**

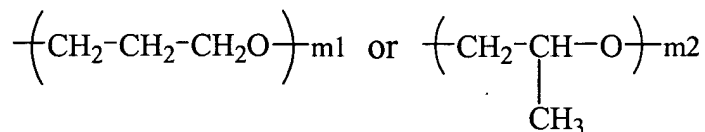
1. (Amended) A polymerized monomeric composition comprising: from 35 to 70 parts by weight of one or more monomers (I) of formula:



wherein

R<sub>1</sub> and R<sub>2</sub> represent H or CH<sub>3</sub>,

A is a divalent moiety of formula:

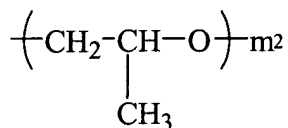


m<sub>1</sub> and m<sub>2</sub> each are an integer in the range of 4 to 20,

from 5 to 50 parts by weight of a monomer (II) comprising at least a urethane unit and at least two (meth)acrylate functions, and

from 5 to 40 parts by weight of a monomer (III) with a high Abbe number comprising at least one non aromatic cyclic or polycyclic hydrocarbon moiety and further comprising one or more methacrylate functions, the total of the monomers (I), (II), and (III) representing 100 parts by weight.

2. (Twice Amended) The composition of claim 1, [characterized in that, in] wherein the monomer formula (I), said divalent A represents:

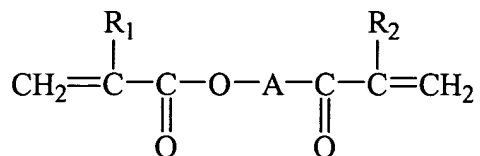


m<sub>2</sub> being defined in claim 1.

21. (Twice amended) A transparent polymer substrate with a refraction index varying between 1.48 and 1.52, [characterized in that it] wherein the polymer substrate is obtained through polymerization of the composition of claim 1.

**APPENDIX B**  
**Clean Copy of Presently Pending Claims**

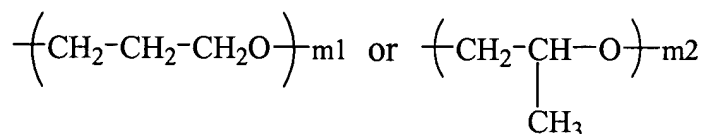
1. A polymerized monomeric composition comprising: from 35 to 70 parts by weight of one or more monomers (I) of formula:



wherein

$\text{R}_1$  and  $\text{R}_2$  represent H or  $\text{CH}_3$ ,

A is a divalent moiety of formula:

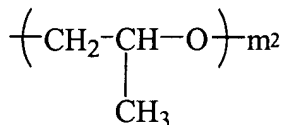


$m1$  and  $m2$  each are an integer in the range of 4 to 20,

from 5 to 50 parts by weight of a monomer (II) comprising at least a urethane unit and at least two (meth)acrylate functions, and

from 5 to 40 parts by weight of a monomer (III) with a high Abbe number comprising at least one non aromatic cyclic or polycyclic hydrocarbon moiety and further comprising one or more methacrylate functions, the total of the monomers (I), (II), and (III) representing 100 parts by weight.

2. The composition of claim 1, wherein the monomer formula (I), said divalent A represents:



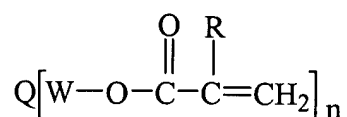
$m2$  being defined in claim 1.

3. The composition of claim 1, further defined as comprising from 40 to 60 parts by weight of monomers (I) and  $m_1$  and  $m_2$  are integers from 5 to 10.

4. The composition of claim 1, wherein the monomer (II) is a urethane di(meth)acrylate oligomer.

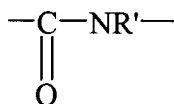
5. The composition of claim 4, wherein the urethane di(meth)acrylate oligomer is further defined as an aliphatic polyester.

6. The composition of claim 1, wherein the monomer (II) has the formula:



wherein:

Q is a moiety of a valence n, with a straight, branched or cyclic structure, comprising at least two units of formula:



W is a divalent alkyl moiety, with a straight or branched structure, containing from 1 to 5 carbon atoms,

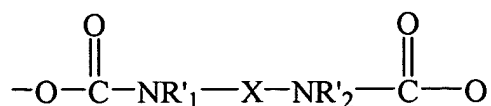
n varies from 2 to 4,

R represents H or CH<sub>3</sub>, and

R<sup>1</sup> represents H or a valence link.

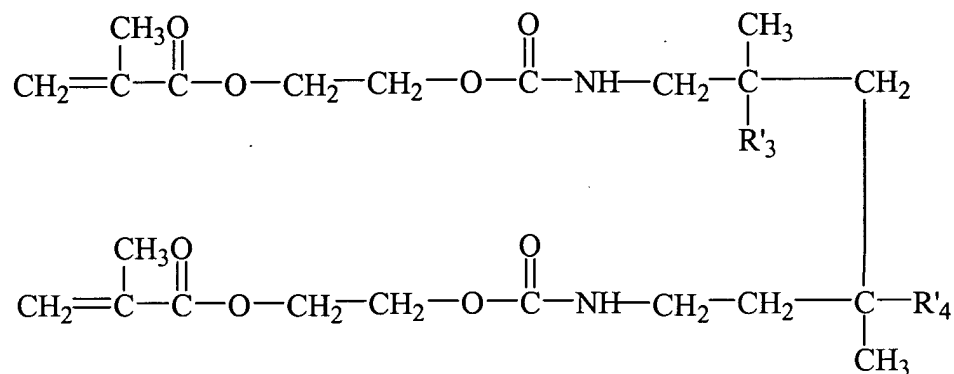
7. The composition of claim 6, wherein W represents the -CH<sub>2</sub>CH<sub>2</sub>- moiety.

8. The composition of claim 6, wherein, in the monomer formula (II), the Q moiety is a divalent moiety having the following formula:



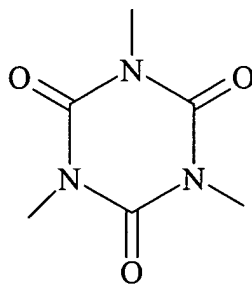
wherein X represents a straight or a branched divalent alkyl chain [having from 1 to 5 carbon atoms, preferably from 8 to 12 carbon atoms], and R'<sub>1</sub> and R'<sub>2</sub> independent from one another represent H or CH<sub>2</sub>.

9. The composition of claim 8, wherein the monomer (II) has the following formula:

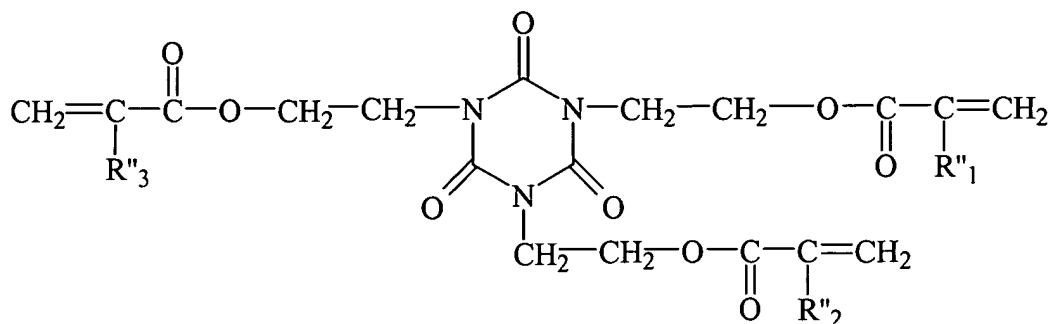


wherein R'<sub>3</sub> and R'<sub>4</sub> represent, independently from one another, H or CH<sub>2</sub>.

10. The composition of claim 6, wherein, in the monomer formula (II), Q represents a trivalent moiety of formula:



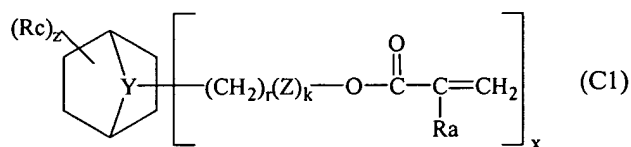
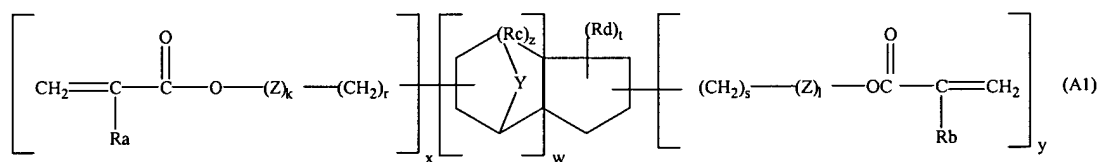
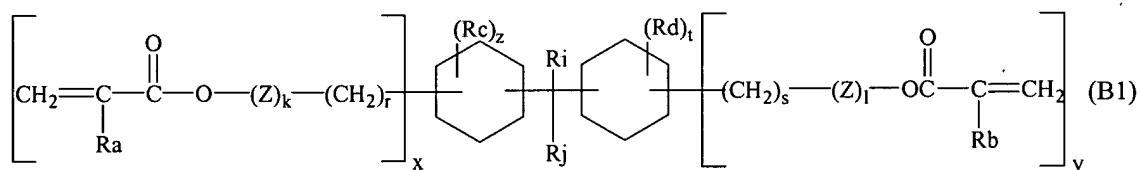
11. The composition of claim 10, wherein the monomer (II) has the following formula:



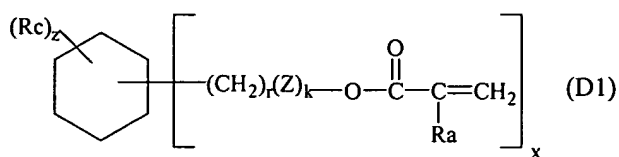
wherein R<sup>1</sup>, R<sup>2</sup>, and R<sup>3</sup> represent, independently from each other, H or CH<sub>3</sub>.

12. The composition of claim 1, further defined as comprising 30 to 40 parts by weight of monomer (II).

14. The composition of claim 13, wherein the monomer (III) has a formula of:



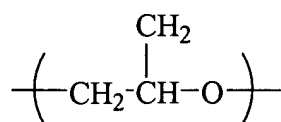
or



wherein:

Y is a divalent moiety selected amongst  $-\text{O}-$ ,  $-\text{CH}_2\text{CH}_2-$ ,  $-\text{C(H)(CH}_3)-$ ,

Z is a divalent moiety selected amongst  $-(\text{CH}_2)_p\text{O}-$ , p being an integer from 1 to 4, and

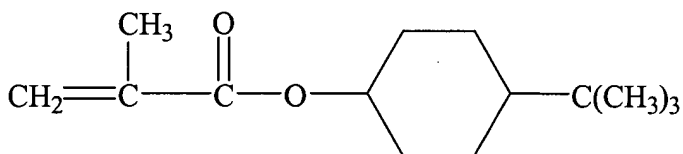


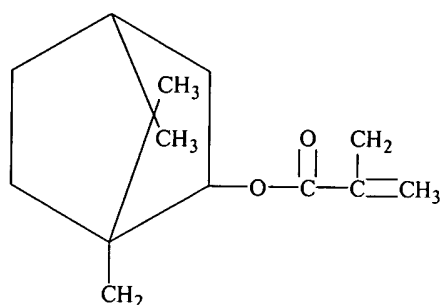
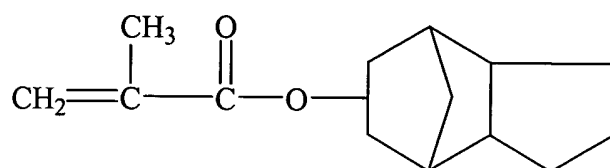
$\text{R}_a$ ,  $\text{R}_b$  represent H or  $\text{CH}_3$ ,  $\text{R}_c$ ,  $\text{R}_d$  represent, independently from one another, a straight or a branched alkyl moiety, having from 1 to 6 carbon atoms,

$\text{R}_i$ ,  $\text{R}_j$  represent, independently from one another, a straight or a branched alkyl moiety, having from 1 to 10 carbon atoms,

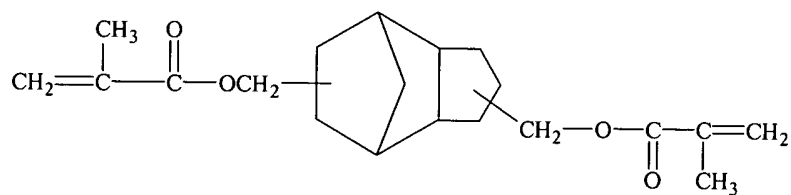
w is an integer of 1 to 3, x is an integer of 0 to 3, y is an integer of 0 to 3, providing that  $x + y$  is equal to or higher than 1, k is an integer of 0 to 6, l is an integer of 0 to 6, r is an integer of 0 to 6, s is an integer of 0 to 6, z is an integer of 0 to 3 and t is an integer of 0 to 3.

15. The composition of claim 14, wherein the monomer (III) has a formula of:





OR



16. The composition of claim 1, further defined as comprising from 10 to 30 parts by weight of monomer (III).

17. The composition of claim 1, wherein the monomers (II) and (III) each provide, through homopolymerization, a homopolymer with a refractive index lower than or equal to 1.54.



18. The composition of claim 1, further defined as comprising one or more monomers (IV) polymerizable by radical mechanism and that are different from the monomers (I), (II) and (III), in a proportion of 0 to 40% by weight based on the total weight of monomers (I), (II) and (III).
19. The composition of claim 1, wherein the monomer (IV) is such that its homopolymer has a refraction index lower than or equal to 1.54.
20. The composition of claim 1, further defined as having a viscosity lower than or equal to 0.3 Pa.s.
21. A transparent polymer substrate with a refraction index varying between 1.48 and 1.52, wherein the polymer substrate is obtained through polymerization of the composition of claim 1.
22. An optical lens comprising a polymer substrate of claim 21.
23. The optical lens of claim 22, further defined as an ophthalmic lens.
24. The optical lens of claim 23, wherein the lens comprises glass.
25. The method of claim 8, wherein X represents a straight or a branched divalent alkyl chain having from 1 to 12 carbon atoms.
26. The method of claim 25, wherein X represents a straight or a branched divalent alkyl chain having from 1 to 5 carbon atoms.
27. The method of claim 25, wherein X represents a straight or a branched divalent alkyl chain having from 8 to 12 carbon atoms.